

EXPRESS MAIL NO. EL755728543US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Magnus Malmqvist et al.
Application No. : 09/760,213
Filed : January 12, 2001
For : METHOD AND DEVICE FOR LAMINAR
FLOW ON A SENSING SURFACE

Docket No. : 740073.404C1
Date : June 12, 2001

Box Missing Parts
Commissioner for Patents
Washington, DC 20231

PRELIMINARY AMENDMENT

Commissioner for Patents:

Prior to examining the present application, Applicants respectfully request entry of the following amendments to the claims.

In the Specification:

Please amend the specification by inserting a new section before the "Technical Field" as follows:

-- CROSS-REFERENCE TO RELATED APPLICATION

This application is a continuation of United States Patent No. 6,200,814 issued March 13, 2001. --

In the Claims:

Please amend claims 9, 14, 16-18, 39, 43 and 44 to read as follows:

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9. (Amended) The method according to claim 1 wherein sensitization of the sensing surface comprises immobilizing an analyte-specific ligand to the sensing surface.

14. (Amended) The method according to claim 11 wherein at least the ligand of the first sensitizing fluid or the second sensitizing fluid is an analyte-specific ligand.

16. (Amended) The method according to claim 11 wherein at least the ligand of the first sensitizing fluid or the second sensitizing fluid is a bi-functional ligand.

17. (Amended) A sensitized sensing surface made according to the method of claim 1.

18. (Amended) A method of analyzing a fluid sample for an analyte, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1, contacting the sensing area with the fluid sample, and detecting interaction between the analyte and the sensing area.

39. (Amended) A sensor system, comprising a sensor device according to claim 31 and further comprising:

means for applying laminar fluid flows through the inlet openings, such that the laminar fluid flows pass side by side through the flow cell over the sensing surface;

means for varying the relative flow rates of the laminar flows of fluids to vary the respective lateral extensions of the laminar flows over the sensing surface; and

detection means for detecting interaction events on the sensing surface.

43. (Amended) A method of synthesizing compounds, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1, wherein such sensitization constitutes the successive addition of chemical moieties to achieve compound synthesis.

44. (Amended) A method of synthesizing peptides or oligonucleotides, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1, wherein such sensitization constitutes the successive addition of peptidic or oligonucleotidic moieties to achieve peptide or oligonucleotide synthesis.

REMARKS

Pending claims 9, 14, 16-18, 43 and 44 have been amended to avoid improper multiple dependent claims. By this Amendment, the specification is amended to add the section entitled "CROSS-REFERENCE TO RELATED APPLICATION" which section recites Applicants' claim to priority. This amendment does not add new matter to the specification, and Applicants respectfully request entry of this amendment.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with markings to shows changes made.**"



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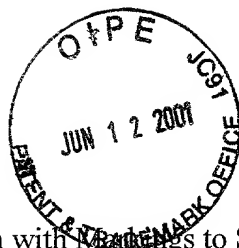
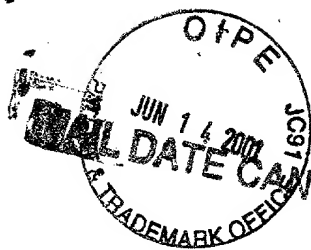
Respectfully submitted,

Seed Intellectual Property Law Group PLLC

A handwritten signature in black ink, appearing to read "K. Hermanns", written over a horizontal line.

Karl R. Hermanns

Registration No. 33,507



Version with Amendments to Show Changes Made

In the Specification

Please amend the specification by inserting a new section before the "Technical Field" as follows:

-- CROSS-REFERENCE TO RELATED APPLICATION

This application is a continuation of pending United States Patent Application No. 09/009,139 filed January 20, 1998. --

In the Claims:

Claims 9, 14, 16-18, 39, 43 and 44 have been amended as follows:

9. (Amended) The method according to claim 1 ~~any one of claims 1-8~~ wherein sensitization of the sensing surface comprises immobilizing an analyte-specific ligand to the sensing surface.

14. (Amended) The method according to claim 11 ~~any one of claims 11-13~~ wherein at least the ligand of the first sensitizing fluid or the second sensitizing fluid is an analyte-specific ligand.

16. (Amended) The method according to claim 11 ~~any one of claims 11-13~~ wherein at least the ligand of the first sensitizing fluid or the second sensitizing fluid is a bi-functional ligand.

17. (Amended) A sensitized sensing surface made according to the method of claim 1 ~~any one of claims 1-16~~.

18. (Amended) A method of analyzing a fluid sample for an analyte, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1 ~~any one of claims 1-16~~, contacting the sensing area with the fluid sample, and detecting interaction between the analyte and the sensing area.

39. (Amended) A sensor system, comprising a sensor device according to claim 31 ~~any one claims 31-38~~ and further comprising:

means for applying laminar fluid flows through the inlet openings, such that the laminar fluid flows pass side by side through the flow cell over the sensing surface;

means for varying the relative flow rates of the laminar flows of fluids to vary the respective lateral extensions of the laminar flows over the sensing surface; and

detection means for detecting interaction events on the sensing surface.

43. (Amended) A method of synthesizing compounds, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1 ~~any one of claims 1-16~~, wherein such sensitization constitutes the successive addition of chemical moieties to achieve compound synthesis.

44. (Amended) A method of synthesizing peptides or oligonucleotides, comprising sensitizing a discrete sensing area on a sensing surface by the method according to claim 1 ~~any one of claims 1-16~~, wherein such sensitization constitutes the successive addition of peptidic or oligonucleotidic moieties to achieve peptide or oligonucleotide synthesis.